

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (previously presented): A processing server for allocating to user terminals resources of a local area network, said server connected to at least one local area network access point, said server comprising:

a control module, which:

classifies the terminals into a first group or a second group according to whether or not the terminals establish an encrypted communication with said local area network; and

allocates resources of said local area network to the terminals attempting to establish communication with said local area network as a function of whether the terminals are classified in said first group or said second group,

wherein said control module allocates at least two priority levels to the terminals for said allocation of resources of the local area network according to whether the terminals are classified in said first group or said second group and automatically modifies an allocated priority level as a function of the available resources of said local area network.

2. (previously presented): The server according to claim 1, wherein said control module determines a MAC address of each of said terminals attempting to establish communication with said local area network; and

said processing server further comprises means for allocating an IP address to each of said terminals attempting to establish communication with said local area network, and having the MAC address determined by said control module.

3. (previously presented) The server according to claim 2, wherein said allocation means are of the DHCP type.

4. (currently amended): The server according to claim 2, further comprising a memory for storing a table containing primary MAC addresses associated with ~~said first~~ terminals of said terminals, said first terminals exchange data frames encrypted in accordance with at least one format.

5. (previously presented): The server according to claim 4, wherein said table contains secondary MAC addresses associated with second terminals of said terminals, said second terminals exchange unencrypted data frames.

6. (previously presented): The server according to claim 5, wherein:
said control module determines whether an extracted MAC address, extracted from a received frame, is one of said primary or secondary MAC addresses and,

if said determination is affirmative, said control module sends the allocation means a request to allocate a primary IP address to a terminal corresponding to said extracted MAC address, to allow said terminal corresponding to said extracted MAC address to set up a link with at least one first remote network and one second remote network and,

if said determination is negative, said control module sends the allocation means a request to allocate a secondary IP address to the terminal corresponding to said extracted MAC address, referred to as a third terminal, to allow said third terminal to set up a connection with at least one second remote network.

7. (previously presented): The server according to claim 6, characterized in that said first terminals are associated with said at least one first remote network.

8. (previously presented): The server according to claim 6, characterized in that said second terminals belong to known users of said at least one first remote network.

9. (previously presented) The server according to claim 6, wherein:
each first remote network is selected from a group comprising private networks, IP data networks, and public switched telephone networks; and
each second remote network is selected from a group comprising IP data networks and public switched telephone networks.

10. (canceled).

11. (currently amended): The server according to claim 1, wherein ~~the primary~~ MAC addresses and ~~the secondary~~ MAC addresses in ~~said a~~ table are stored in corresponding relationship to at least one of said priority levels.

12. (currently amended): The server according to claim 11, wherein said priority levels comprise:

at least one first priority level allocated to ~~said~~-first terminals associated with primary MAC addresses; and

one second priority level allocated to ~~said~~-second terminals associated with secondary MAC addresses.

13. (currently amended): The server according to claim 12, wherein said control module allocates a third priority level for allocation of resources of the local area network to ~~said~~ a third terminal setting up communications not encrypted in accordance with said at least one format and whose MAC addresses are not in ~~said~~ a table.

14. (currently amended) The server according to claim 11, wherein said priority levels apply at least to a bandwidth, and said bandwidth decreases from ~~the~~ a first level to ~~the~~ a third level.

15. (previously presented): The server according to claim 14, wherein said control module sends said access point data representative of said bandwidth assigned to a designated terminal, and said access point allocates corresponding resources to said designated terminal.

16. (canceled).

17. (previously presented): The server according to claim 1, said server is connected to said local area network by a cable connection.

18. (previously presented) The server according to claim 17, said cable connection being an Ethernet link.

19. (previously presented): The server according to claim 1, said server is connected to said local area network by a radio link.

20. (previously presented) The server according to claim 19, wherein said radio link is a 802.11b radio link.

21. (previously presented) A router, including a processing server according to claim 1.

22. (previously presented) A local area network access point, including a processing server according to claim 1.

23. (previously presented) A communication installation comprising:
at least one local area network accessible via at least one access point;
at least one first remote network;
at least one second remote network; and

a processing server according to claim 1, which is connected to said access point and said first and second remote networks.

24. (previously presented) An installation according to claim 23, wherein said local area network is a wireless local area network.

25. (previously presented) An installation according to claim 23, wherein said processing server is connected to said first remote network via a virtual private network.

26. (previously presented) An installation according to claim 23, wherein said processing server is connected to said first remote network via a remote access server.

27. (previously presented) An installation according to claim 23, wherein:
each said first remote network is chosen from a group comprising private networks, IP data networks, and public switched telephone networks ; and
each said second remote network is selected from a group comprising IP data networks and public switched telephone networks.

28. (currently amended): A method of allocating resources of a local area network to user terminals via at least one access point to said local area network, said method comprising:

in the case of an attempt at setting up a connection with said local area network by a terminal of said terminals, classifying said terminal in a first group or a second group according

to whether or not said terminal establishes an encrypted connection with said local area network;
and

allocating resources of said local area network to said terminal as a function of whether
said terminal is classified in said first group or said second group,

wherein at least two levels of priority for allocation of resources of the local area network
are allocated to the terminals according to whether the terminals are classified in said first group
or said second group and wherein an allocated priority level is automatically modified as a
function of the available resources of said local area network.

29. (previously presented) The method according to claim 28, further comprising:
in the event of an attempt by said terminal to set up a connection with said local area
network, determining a MAC address of said terminal, and allocating an IP address to said
terminal.

30. (previously presented): The method according to claim 29, further comprising:
providing a table containing primary MAC addresses associated with first terminals of
said terminals, said first terminals exchange data frames encrypted in accordance with at least
one format.

31. (previously presented): The method according to claim 30, wherein said table
contains secondary MAC addresses associated with second terminals of said terminals, said
second terminals exchange unencrypted data frames.

32. (previously presented): The method according to claim 31, further comprising:
making a determination as to whether an extracted MAC address, extracted from a received frame, is one of said primary or secondary MAC addresses; and
if said determination is affirmative, allocating a primary IP address to the terminal corresponding to said extracted MAC address to allow said terminal to set up a connection with at least one first remote network and one second remote network; and
if said determination is negative, allocating a secondary IP address to the terminal corresponding to said extracted MAC address, referred to as a third terminal, to allow said third terminal to set up a connection with a least one second remote network.

33. (previously presented): The method according to claim 32, wherein said first terminals are associated with said at least one first remote network.

34. (previously presented): The method according to claim 32, wherein said second terminals belong to known users of said at least one first remote network.

35. (previously presented) The method according to claim 32, wherein:
each first remote network is selected from a group comprising private networks, IP data networks, and public switched telephone networks; and
each second remote network is selected from a group comprising IP data networks and public switched telephone networks.

36. (canceled).

37. (currently amended): The method according to claim 28, wherein ~~the~~ primary MAC addresses and ~~the~~ secondary MAC address in ~~said a~~ table are stored in corresponding relationship to at least one of said priority levels.

38. (previously presented) The method according to claim 37, wherein said priority levels comprise :

at least one first priority level allocated to first terminals associated with primary MAC addresses; and

at least one second priority level allocated to second terminals associated with secondary MAC addresses.

39. (currently amended): The method according to claim 38, wherein a third priority level for allocation of resources of the local area network is allocated to ~~said a~~ third terminal setting up communications that are not encrypted in accordance with said at least one format and whose MAC addresses are not in ~~said a~~ table.

40. (currently amended) The method according to claim ~~36~~32, wherein said priority levels relate at least to a bandwidth. and said bandwidth decreases from the first level to the third level.

41. (previously presented): The method according to claim 40, wherein said access point is sent data representative of said bandwidth assigned to a designated terminal, and said

access point allocates corresponding resources to said designated terminal.

42. (canceled).

43. (previously presented): The method according to claim 28, wherein said local area network is selected from the group comprising PLMN, PABX private networks, and private communication gateways.

44. (currently amended) The method according to claim 43, wherein the PLMN ~~public networks are~~ is a mobile networks selected from the group comprising GSM, GPRS, and UMTS networks.